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Notice of Allowability	Application No.	Applicant(s)		
	10/091,194	NADD ET AL.		
	Examiner	Art Unit		
	Alonzo Chambliss	2827		
The MAILING DATE of this communication appears to the series of the communication appears to the series allowable, PROSECUTION ON THE MERITS is the series to the communication of the Office of ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3-1. This communication is responsive to amendment A filed 2. The allowed claim(s) is/are 1-18.	S (OR REMAINS) CLOSED in the state of the st	n this application. If not included unication will be mailed in due co	urse. THIS	
 3. ☐ The drawings filed on are accepted by the Examin 4. ☐ Acknowledgment is made of a claim for foreign priority a a) ☐ All b) ☐ Some* c) ☐ None of the: 	under 35 U.S.C. § 119(a)-(d)	or (f).		
1. Certified copies of the priority documents have				
2. Continued the continued continued the priority documents have			- f Al	
 Copies of the certified copies of the priority d International Bureau (PCT Rule 17.2(a)). 	ocuments have been receive	d in this national stage application	n from the	
* Certified copies not received:				
 5. Acknowledgment is made of a claim for domestic priority reference was included in the first sentence of the specifical (a). The translation of the foreign language provisional. 6. Acknowledgment is made of a claim for domestic priority in the first sentence of the specification or in an Application. 	cation or in an Application Da application has been receive under 35 U.S.C. §§ 120 and/	ta Sheet. 37 CFR 1.78.	·	
Applicant has THREE MONTHS FROM THE "MAILING DATE" below. Failure to timely comply will result in ABANDONMENT o	of this communication to file a of this application. THIS THE	a reply complying with the require	ments noted	
 A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which gi 	mitted. Note the attached EXA ives reason(s) why the oath o	AMINER'S AMENDMENT or NOT declaration is deficient.	FICE OF	
 CORRECTED DRAWINGS (as "replacement sheets") makes including changes required by the Notice of Draftspe □ hereto or 2) ☑ to Paper No. 4. 		v (PTO-948) attached		
(b) \square including changes required by the proposed drawing				
(c) ☐ including changes required by the attached Examine	r's Amendment / Comment or	r in the Office action of Paper No.	·	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on to the margin according to 37 CF	he drawings in the front (not the baFR 1.121(d).	ick) of	
 DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT FOR 	osit of BIOLOGICAL MATI THE DEPOSIT OF BIOLOGI	ERIAL must be submitted. Not CAL MATERIAL.	e the	
Attachment(s)				
1⊠ Notice of References Cited (PTO-892)	5 Notice of Info	ormal Patent Application (PTO-15	52)	
 Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No Examiner's Comment Regarding Requirement for Deposit of Biological Material 		6☐ Interview Summary (PTO-413), Paper No		
	^{08),} 7⊠ Examiner's A	Amendment/Comment		
		Statement of Reasons for Allowar	ıce	
		Alonzo Chambliss Patent Examiner Art Unit: 2827		

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DETAILED ACTION

1. Amendment A filed on 8/8/03 has been fully considered and made of record in Paper No. 5.

EXAMINER'S AMENDMENT

- 2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 3. The application has been amended as follow:

IN SPECIFICATION:

The title has been changed to "H-BRIDGE DRIVE UTILIZING A PAIR OF HIGH AND LOW SIDE MOSFET'S IN A COMMON INSULATION HOUSING".

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee.

Allowable Subject Matter

4. The following is a statement of reasons for the indication of allowance subject matter: the prior art of record does not teach or suggest the combination of a H-bridge driver having first and second high side MOSFET's, wherein the first and second high side MOSFET's are mounted on first and second low side MOSFET's respectively. A

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control IC controlling the high side and low side MOSFET's, wherein the control IC has input terminals connected to receive input control signals from an exterior bridge control circuit and has output terminals connected to the control electrodes of the high side MOSFET's. A support for supporting the high side and low side MOSFET's. A common insulation housing for enclosing the first and second high side MOSFET's and the IC, wherein the first and second high side MOSFET has power switches having output terminals. The output terminals of the power switch communicating an output signal for the control IC shutdown the H-bridge when the switch current or MOSFET die temperature exceeds a threshold value in claim 1.

A H-bridge driver having first and second high side MOSFET's, wherein the first and second high side MOSFET's are mounted on first and second low side MOSFET's respectively. A control IC controlling the high side and low side MOSFET's, wherein the control IC has input terminals connected to receive input control signals from an exterior bridge control circuit and has output terminals connected to the control electrodes of the high side MOSFET's. A support for supporting the high side and low side MOSFET's. A common insulation housing for enclosing the first and second high side MOSFET's and the IC. Connection pins extending from the package, wherein the connection pins include IN1 and IN2 pins coupled to the control electrodes of the first and second high MOSFET's. A Vcc pin and a GND pin connected to the power input terminals with a M1 and M2 pin connected to the first and second nodes at the output bridge terminals in claim 2.

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A H-bridge driver having first and second high side MOSFET's, wherein the first and second high side MOSFET's are mounted on first and second low side MOSFET's respectively. A control IC controlling the high side and low side MOSFET's, wherein the control IC has input terminals connected to receive input control signals from an exterior bridge control circuit and has output terminals connected to the control electrodes of the high side MOSFET's. A support for supporting the high side and low side MOSFET's. A common insulation housing for enclosing the first and second high side MOSFET's and the IC. The low side MOSFET's both being normally ON in claim 3.

A H-bridge driver having first and second high side MOSFET's, wherein the first and second high side MOSFET's are mounted on first and second low side MOSFET's respectively. A control IC controlling the high side and low side MOSFET's, wherein the control IC has input terminals connected to receive input control signals from an exterior bridge control circuit and has output terminals connected to the control electrodes of the high side MOSFET's. A support for supporting the high side and low side MOSFET's. A common insulation housing for enclosing the first and second high side MOSFET's and the IC. The control IC includes a PWM generator for applying a soft start PWM signal to the control electrodes of the low side MOSFET's in claim 5.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning the communication or earlier communications from the examiner should be directed to Alonzo Chambliss whose telephone number is (703) 306-9143. The fax phone number for the Group is (703) 308-772 or 7724.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703) 308-7956.

AC/November 15, 2003

Alonzo Chambliss Patent Examiner Art Unit 2827